

FIG. 1A

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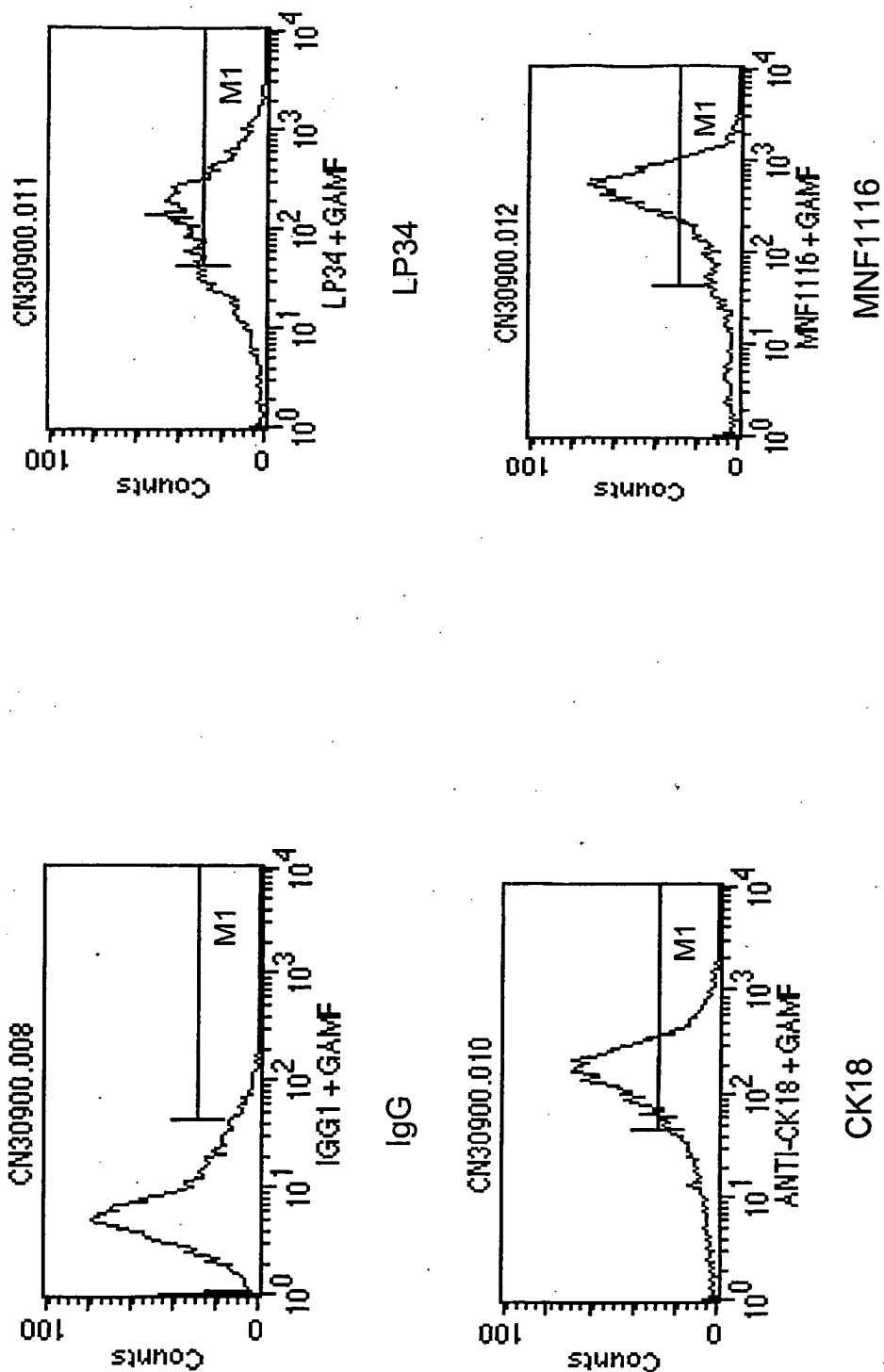


FIG. 1B

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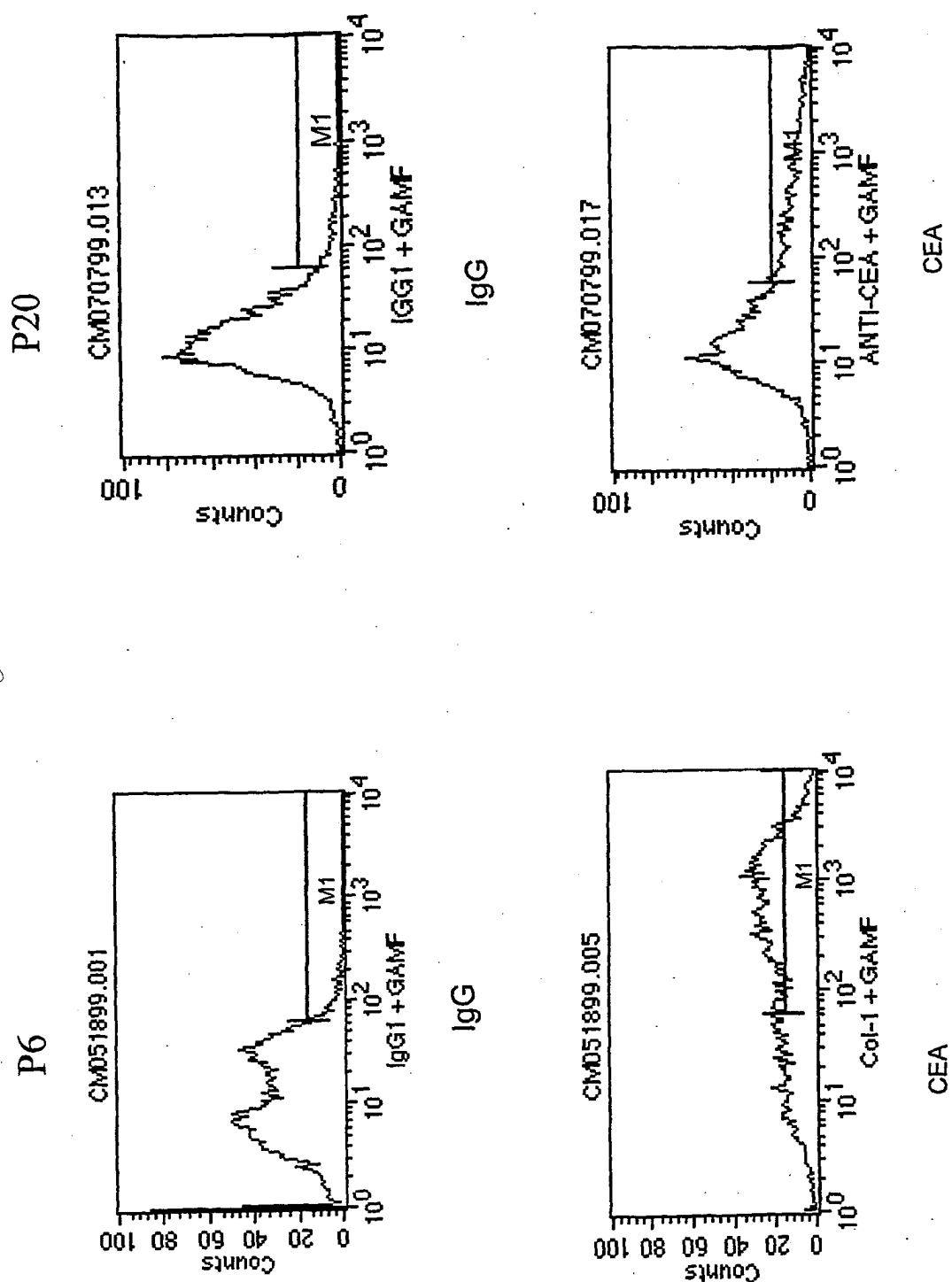


FIG 1C

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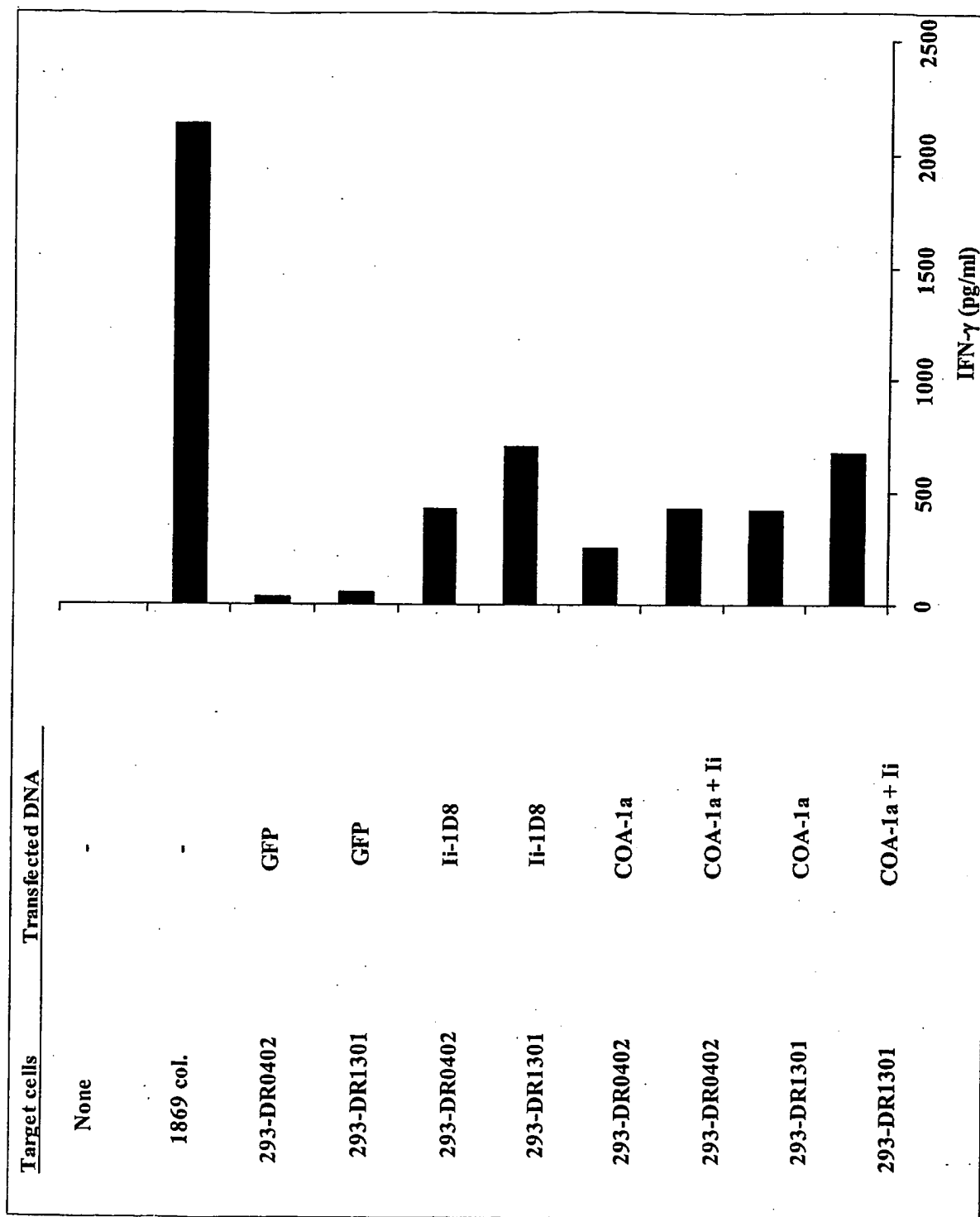


FIG. 2

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MAFMTRKLWD LEQQVKAQTD EILSKDQKIA ALEDLVQTLR PHPAEATLQR QEELETMCVQ 60
LQRQVREMER FLSDYGLQWV GEPMDQEDSE SKTVSEHGER DWMTAKKFWK PGDSLAPPEV 120
DFDRLLASLQ DLSELVVEGD TQVTPVPGGA RLRTLEPIPL KLYRNGIMMF DGPFQPFYDP 180
STQRCLRDIL DGFFPSELQR LYPNGVPFKV SDLRNQVYLE DGLDPFPGEG RVVGRQRMHK 240
ALDRVEEHPG SRMTAEKFLN RLPKFVIRQG EVIDIRGPIR DTLQNCCLP ARIQEIVVET 300
PTLAAERERS QESPNTAPP LSMLRIKSEN GEQAFLLMMQ PDNTIGDVRA LLAQARVMDA 360
SAFEIFSTFP PTLYQDDTLT LQAAGLVPKA ALLLRARRA^AP KSSLKFSPGP CPGPGPGPSP 420
GPGPGSSPCP GPSPSPQ 437

Alanine at
position 399

FIG. 3

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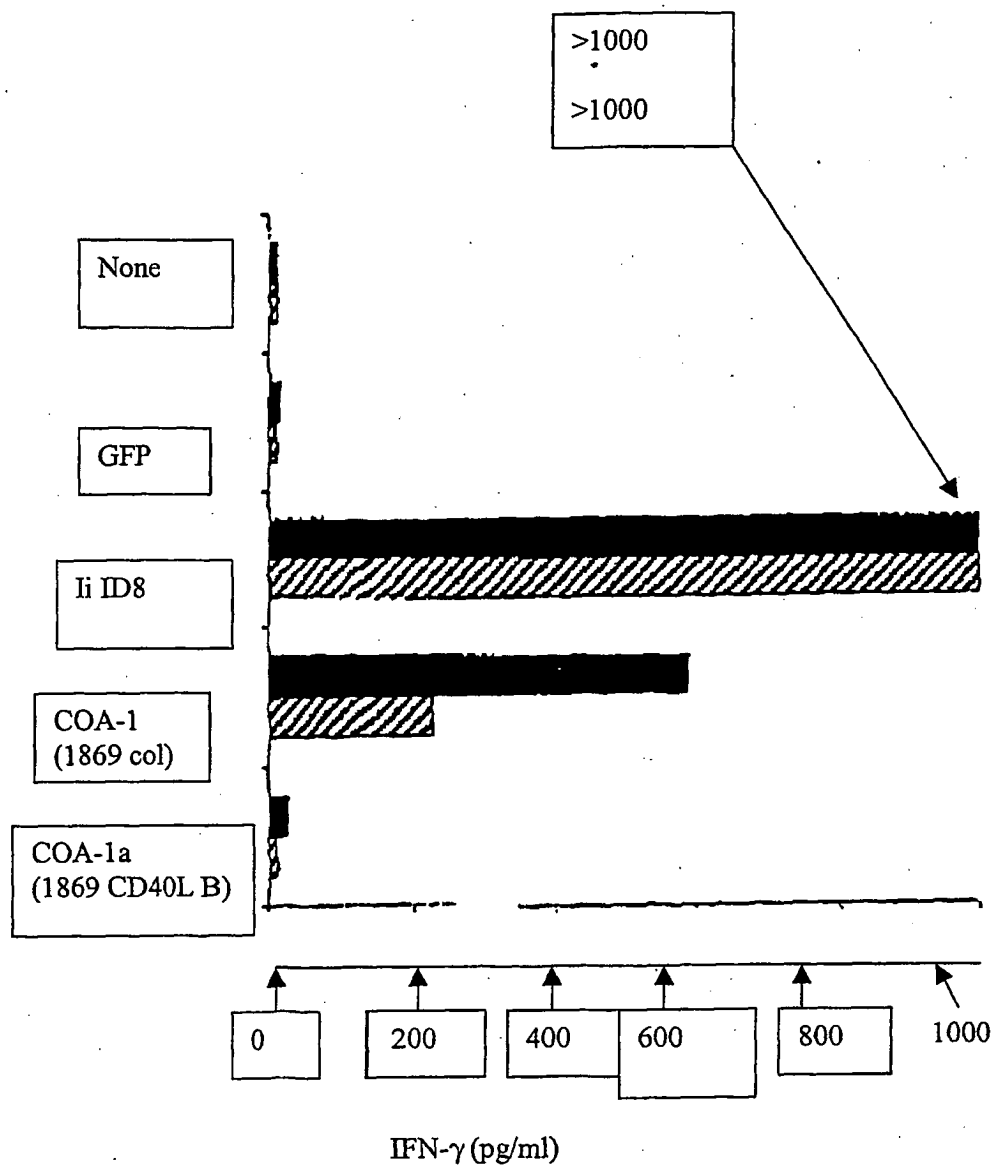


FIG. 4

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cgctgcggga cggctagcgg ccctgcgtgg aggcgaggaa tccgcatcta tggagatgtc 60
cctgcatccc atgactcgga gctg atg gcc ttc atg acg agg aag ttg tgg 111
Met Ala Phe Met Thr Arg Lys Leu Trp
1 5
gac ctg gag cag cag gtg aag gcc cag act gat gag ata ctg tcc aag 159
Asp Leu Glu Gln Gln Val Lys Ala Gln Thr Asp Glu Ile Leu Ser Lys
10 15 20 25
gat cag aag ata gcg gcc cta gag gac ctg gtg cag acc ctc cgg cca 207
Asp Gln Lys Ile Ala Ala Leu Glu Asp Leu Val Gln Thr Leu Arg Pro
30 35 40
cac cca gcc gag gca acc ctg cag cgg cag gag gaa ctg gag acg atg 255
His Pro Ala Glu Ala Thr Leu Gln Arg Gln Glu Glu Leu Glu Thr Met
45 50 55
tgt gtg cag ctg cag cgg cag gtc agg gag atg gag cgg ttc ctc agt 303
Cys Val Gln Leu Gln Arg Gln Val Arg Glu Met Glu Arg Phe Leu Ser
60 65 70
gac tat ggc ctg cag tgg gtg ggc gag ccc atg gac cag gag gac tca 351
Asp Tyr Gly Leu Gln Trp Val Gly Glu Pro Met Asp Gln Glu Asp Ser
75 80 85
gag agc aag aca gtc tca gag cat ggc gag agg gac tgg atg aca gcc 399
Glu Ser Lys Thr Val Ser Glu His Gly Glu Arg Asp Trp Met Thr Ala
90 95 100 105
aag aag ttc tgg aag cca ggg gac tca ttg gcg ccc cct gag gtg gac 447
Lys Lys Phe Trp Lys Pro Gly Asp Ser Leu Ala Pro Pro Glu Val Asp
110 115 120
ttt gac agg ctg ctg gcc agc ctg cag gat ctt agt gag ctg gtg gta 495
Phe Asp Arg Leu Leu Ala Ser Leu Gln Asp Leu Ser Glu Leu Val Val
125 130 135
gag ggt gac acc caa gtg aca cca gtg ccc ggc ggg gca cgg ctg cgt 543
Glu Gly Asp Thr Gln Val Thr Pro Val Pro Gly Gly Ala Arg Leu Arg
140 145 150
acc ctc gag ccc atc ccg ctg aag ctc tac cgg aat ggc atc atg atg 591
Thr Leu Glu Pro Ile Pro Leu Lys Leu Tyr Arg Asn Gly Ile Met Met
155 160 165
ttc gac ggg ccc ttc cag ccc ttc tac gat ccc tcc aca cag cgc tgc 639
Phe Asp Gly Pro Phe Gln Pro Phe Tyr Asp Pro Ser Thr Gln Arg Cys
170 175 180 185
ctc cga gac ata ttg gat ggc ttc ttt ccc tca gag ctc cag cga ctg 687
Leu Arg Asp Ile Leu Asp Gly Phe Phe Pro Ser Glu Leu Gln Arg Leu
190 195 200
tac ccc aat ggg gtc ccc ttt aag gtg agt gac ttg cgc aat cag gtc 735
Tyr Pro Asn Gly Val Pro Phe Lys Val Ser Asp Leu Arg Asn Gln Val
205 210 215

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FIG. 5

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tac ctg gag gat gga ctg gac ccc ttc cca ggc gag ggc cgt gtg gtg 783
 Tyr Leu Glu Asp Gly Leu Asp Pro Phe Pro Gly Glu Gly Arg Val Val
 220 225 230

ggc agg cag cgg atg cac aag gcc ttg gac agg gtg gag gag cac cca 831
 Gly Arg Gln Arg Met His Lys Ala Leu Asp Arg Val Glu Glu His Pro
 235 240 245

ggc tcc agg atg act gct gag aaa ttt ctg aac agg ctc ccc aag ttt 879
 Gly Ser Arg Met Thr Ala Glu Lys Phe Leu Asn Arg Leu Pro Lys Phe
 250 255 260 265

gtg atc cgg caa ggc gag gtg att gac atc cgg ggc ccc atc agg gac 927
 Val Ile Arg Gln Gly Glu Val Ile Asp Ile Arg Gly Pro Ile Arg Asp
 270 275 280

acc ttg cag aac tgc tgc cca ttg cct gcc cgg atc cag gag att gtg 975
 Thr Leu Gln Asn Cys Cys Pro Leu Pro Ala Arg Ile Gln Glu Ile Val
 285 290 295

gtg gag acg ccc acc ttg gcc gct gag cga gag agg agc cag gag tca 1023
 Val Glu Thr Pro Thr Leu Ala Glu Arg Glu Arg Ser Gln Glu Ser
 300 305 310

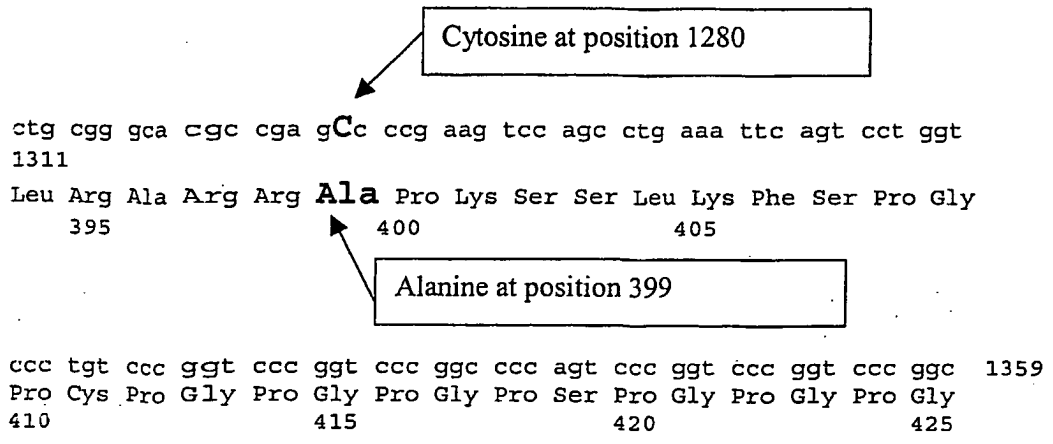
ccc aac aca ccg gca ccc ccg ctc tcc atg ctg cgc atc aag tct gag 1071
 Pro Asn Thr Pro Ala Pro Pro Leu Ser Met Leu Arg Ile Lys Ser Glu
 315 320 325

aat ggg gaa cag gcc ttc cta ctg atg atg cag cct gac aac acc att 1119
 Asn Gly Glu Gln Ala Phe Leu Met Met Gln Pro Asp Asn Thr Ile
 330 335 340 345

ggg gac gtg cga gct ctg cta gcg cag gcc agg gtc atg gat gcc tct 1167
 Gly Asp Val Arg Ala Leu Leu Ala Gln Ala Arg Val Met Asp Ala Ser
 350 355 360

gcc ttt gag atc ttc agc aca ttc ccg ccc acc ctc tac cag gac gat 1215
 Ala Phe Glu Ile Phe Ser Thr Phe Pro Pro Thr Leu Tyr Gln Asp Asp
 365 370 375

aca ctc acg ctg cag gct gca ggc ctt gtg ccc aaa gca gca ctg ctg 1263
 Thr Leu Thr Leu Gln Ala Ala Gly Leu Val Pro Lys Ala Ala Leu Leu
 380 385 390



Cytosine at position 1280

ctg cgg gca cgc cga gCc ccg aag tcc agc ctg aaa ttc agt cct ggt 1311

Leu Arg Ala Arg Arg Ala Pro Lys Ser Ser Leu Lys Phe Ser Pro Gly
395 400 405

Alanine at position 399

ccc tgt ccc ggt ccc ggt ccc ggc ccc agt ccc ggt ccc ggt ccc ggc 1359
Pro Cys Pro Gly Pro Gly Pro Gly Pro Ser Pro Gly Pro Gly Pro Gly
410 415 420 425

FIG. 5 cont.

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tcc agt ccc tgt ccc gga ccc agt ccc agc ccc caa taaagcaccc      1405
Ser Ser Pro Cys Pro Gly Pro Ser Pro Ser Pro Gln
          430          435
accacctc      1413
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FIG. 5 cont.